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Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER *634-5131*

For release June 28, 1963 ATLANTA 22, GEORGIA Vol. 12, No. 25

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED JUNE 22, 1963

Poliomyelitis – The 9 cases of poliomyelitis, all paralytic, reported this week represent the greatest number of cases reported for any single week this year. Illinois, Tennessee, Alabama and Arkansas each reported one case. Five of the cases reported were from Pennsylvania.

The Pennsylvania cases occurred in the Carlisle, Pennsylvania, area, and had onsets of illness between April 23 and June 12. This geographic clustering occurred early in the usual enterovirus season, and represented the heaviest experience with poliomyelitis by this community in over ten years. A mass community program was conducted in the Carlisle area on June 22, with 65,000 persons receiving Type I oral vaccine.

Reported cases of poliomyelitis for the entire United States during 1963 continue to run well below previous years as shown in the tables below:

Poliomyelitis (Cumulative Totals) 1st Through 25th Week

	1963	1962	1961	1960	1959
Paralytic	66	144	144	312	525
Total	76	186	217	428	854

Poliomyelitis (Six Week Totals) 20th Through 25th Week

Paralytic	22	60	48	111	276
Total	26	71	71	147	409

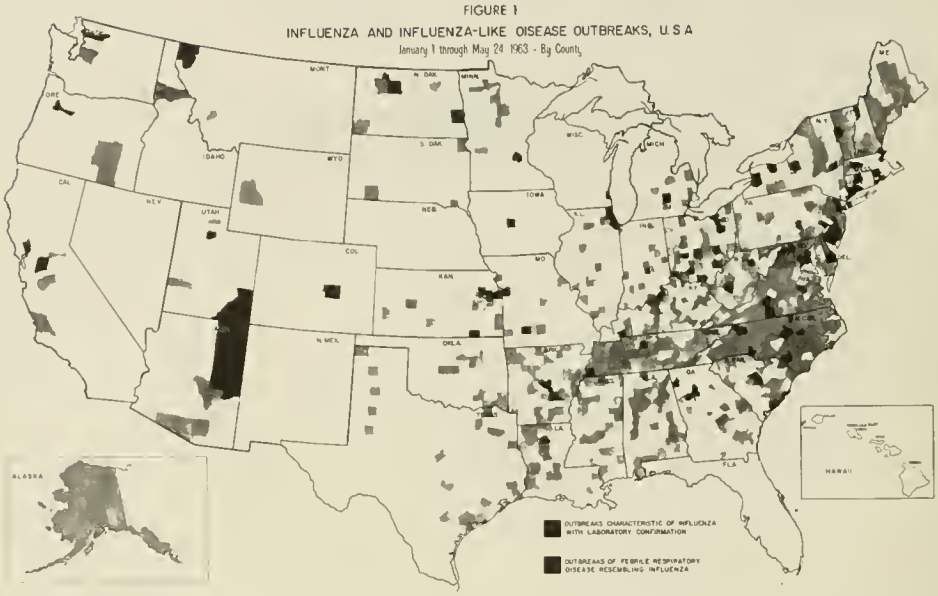
Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous week)

Disease	25th Week Ended June 22, 1963	25th Week Ended June 23, 1962	Median 1958 - 1962	Cumulative First 25 weeks 1963	Cumulative First 25 weeks 1962	Median 1958 - 1962
Aseptic meningitis	25	41	---	592	548	---
Brucellosis	5	12	17	163	195	363
Diphtheria	4	9	6	130	213	322
Encephalitis, infectious	42	38	38	738	753	720
Hepatitis, infectious and serum	671	788	661	22,993	30,890	18,699
Measles	8,794	9,541	10,966	327,869	408,898	357,511
Meningococcal infections	49	44	40	1,402	1,151	1,298
Poliomyelitis, total	9	11	41	76	186	428
Paralytic	9	9	28	66	144	312
Nonparalytic	-	2	12	3	26	78
Unspecified	-	-	1	7	16	38
Streptococcal sore throat and Scarlet fever	4,398	3,952	---	210,636	192,999	---
Tetanus	6	4	---	105	93	---
Tularemia	12	5	---	114	121	---
Typhoid fever	10	14	25	171	227	292
Typhus fever, tick-borne, (Rocky Mountain spotted)	8	7	---	45	57	---
Rabies in Animals	98	87	76	1,967	2,084	1,994

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Psittacosis:	29
Botulism:	5	Rabies in Man:	-
Malaria: N. C. - 1, Ohio - 1.	43	Smallpox:	-
Plague:	-	Typhus, murine: S. C. - 1.	6

FIGURE 1
INFLUENZA AND INFLUENZA-LIKE DISEASE OUTBREAKS, U.S.A.
January 1 through May 24, 1963 - By County


OUTBREAKS CHARACTERISTIC OF INFLUENZA WITH LABORATORY CONFIRMATION
OUTBREAKS OF FEBRILE RESPIRATORY DISEASE RESEMBLING INFLUENZA

INFLUENZA – Epidemics of influenza-like disease first appeared and became widespread in the Eastern United States during January 1963. The first confirmed outbreak due to Influenza A_2 began in early January in Robeson County, North Carolina. Shortly thereafter adjacent counties in North Carolina and contiguous counties in South Carolina were progressively involved, and by February 15 outbreaks of influenza-like illness had been reported from the District of Columbia and 15 States. During January, the spread of the disease to the North and South along the Atlantic Seaboard resulted in community-wide outbreaks in these areas.

Confirmed outbreaks in the Kansas City and Chicago areas occurred during January in rather specialized population groups; however, it was not until February that community-wide outbreaks were seen in these areas. The appearance of outbreaks in early February in West Virginia, Kentucky, and Ohio marked the beginning of a westerly spread of the disease and, by late February, large segments of the middle western and south central States were involved. By the first week of March, outbreaks of influenza-like disease had occurred and were subsiding in the District of Columbia and 35 States, all east of the Rocky Mountain.

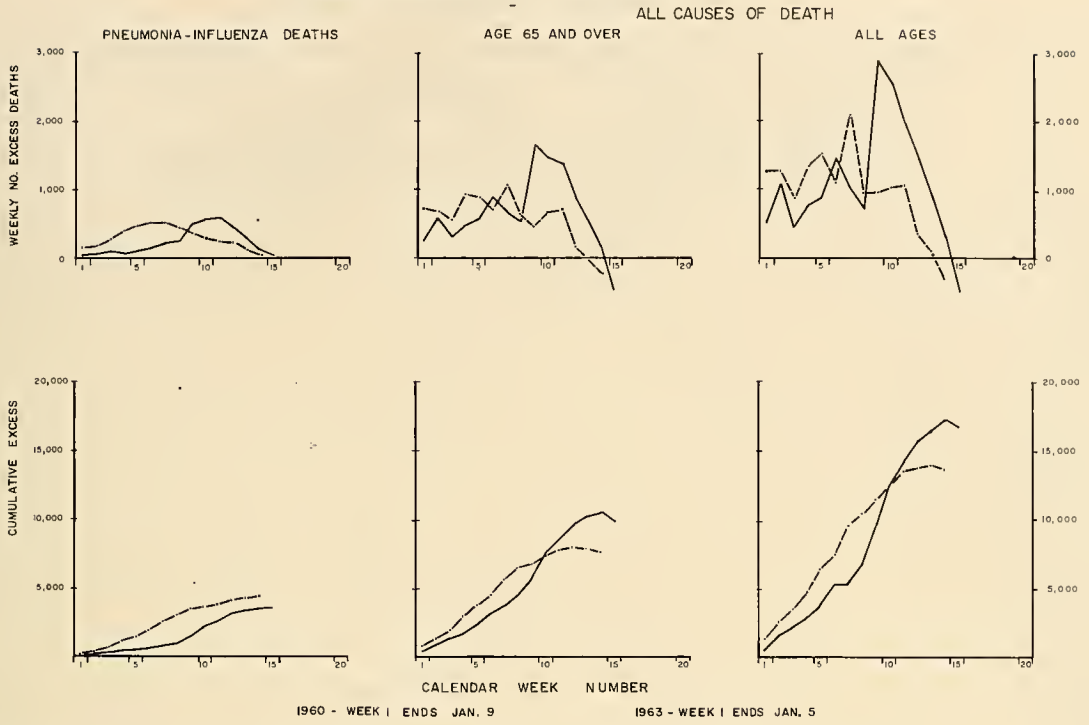
The pattern of epidemic spread continued a westerly course, although the extensive, often State-wide, involvewhich characterized earlier outbreaks on the Eastern Seaboard were not as frequently observed as the epidemic moved westward. The mountain States of Colorado, Idaho, and Utah reported influenza-like disease outbreaks for the first time in early March, and the West Coast States of Alaska and California began to experience focal outbreaks of the disease. In mid-March, small focal outbreaks occurred in Washington and Wyoming.

With the exception of Alaska, where widespread community epidemics occurred during March and April, the West Coast States were notable for the lack of demonstrable widespread community involvement. In California, the presence of Influenza A_2 virus was demonstrated in many areas of the State through serologic confirmation in sporadic cases; however, outbreaks could be demonstrated largely only in institutional environments.

By late April, one or more outbreaks of influenza-like disease had been reported in the District of Columbia and 45 States. Increased incidence of this syndrome was not reported in the States of Florida, Hawaii, Nebraska, Nevada, and New Mexico. The accompanying map (Fig. 1) shows the distribution of outbreaks of influenza-like illness and those with laboratory confirmation of influenza, from January 1 through May 24, 1963. In general, the force of the epidemic, in its capacity for large-scale community involvement, tended to dissipate as the epidemic moved west. Conspicuously absent during the 1963 epidemic was the widespread excess secondary school absenteeism, which was noted during the 1957 Influenza A_2 epidemic. Surveys of age specific attack rates in selected areas of epidemic prevalence showed marked flattening of the attack rate curves in the age groups 10-19. (See MMWR, Vol. 12, Page 95).

Pneumonia-influenza deaths in the 108 U. S. cities first exceeded the epidemic threshold in early January and reached a peak during the week ending March 16. Deaths fell to below threshold levels during the week ending April 13 and have remained so to the present. Excess pneumonia-influenza mortality for the 9 geographic divisions of the United States during the epidemic was shown in MMWR, Vol. 12, Page 135. High levels occurred in all but the Mountain and Pacific Divisions.

FIGURE 2 EXCESS MORTALITY IN 108 U. S. CITIES


LEGEND: ——= 1963 ——— = 1960
ALL CAUSES OF DEATH
PNEUMONIA-INFLUENZA DEATHS
AGE 65 AND OVER
ALL AGES
WEEKLY NO. EXCESS DEATHS
CUMULATIVE EXCESS
CALENDAR WEEK NUMBER
1960 - WEEK 1 ENDS JAN. 9
1963 - WEEK 1 ENDS JAN. 5

Influenza A_2 virus was implicated as the causative agent of one or more outbreaks in the District of Columbia and in 34 of the 45 States reporting outbreaks of influenza-like illness. No isolations of Influenza B virus were reported during the entire season. The contemporary isolates of Influenza Type A strains showed relation through hemagglutination inhibition to the A_2/Jap 305/57 prototype, and are members of the A_2 sub-type. Although detailed antigenic analyses have not been made on all viruses isolated in 1963, there is evidence of some antigenic change away from the 1957 prototype strain.

Pneumonia-Influenza Mortality

The 1963 Influenza A_2 epidemic resulted in an excess pneumonia-influenza death rate of 5.9 per 100,000 population for the entire United States during the three month period January – March. This rate was somewhat lower than the excess rate of 6.7 per 100,000 during the 1960 Influenza A_2 epidemic. For deaths from all causes the 1963 excess rate of 25.5 per 100,000 was considerably above the comparable rate of 15.0 in 1960.

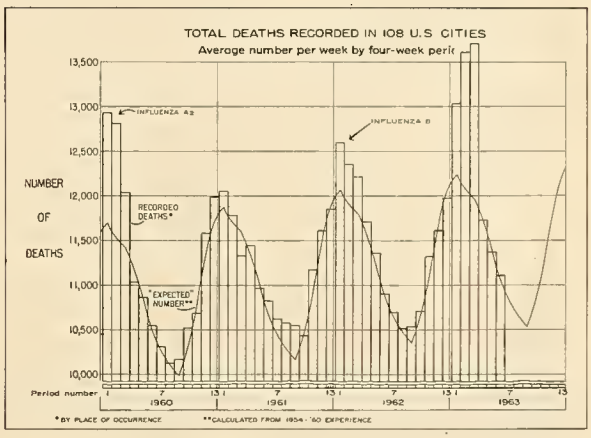
In Figure 2 excess deaths reported by the 108 cities are presented for 1960 and 1963. The period of highest

(Continued on page 212)

TOTAL DEATHS REPORTED IN 108 CITIES

The weekly average number of total deaths in 108 cities for the four-week period ending June 22 was 11,112 as compared with an expected weekly average of 11,057.

	WEEK ENDING				4 Week Total	Weekly Average
	6/1	6/8	6/15	6/22		
Observed	9,971	11,942	11,558	10,978	44,449	11,112
Expected	11,166	11,090	11,019	10,952	44,227	11,057
Excess	-1,195	852	539	26	222	55



(See table, Page 211)

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 22, 1963 AND JUNE 23, 1962

Area	Poliomyelitis, total cases				Poliomyelitis, paralytic				Poliomyelitis, nonparalytic		Aseptic Meningitis	
	25th week		Cumulative First 25 weeks		25th week		Cumulative First 25 weeks		25th week		25th week	
	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962
UNITED STATES	9	11	76	186	9	9	66	144	-	2	25	41
NEW ENGLAND	-	2	-	3	-	2	-	3	-	-	-	1
Maine	-	-	-	-	-	-	-	-	-	-	-	1
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	2	-	2	-	2	-	2	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	1	-	-	-	1	-	-	-	-
MIDDLE ATLANTIC	5	-	14	33	5	-	12	20	-	-	1	-
New York	-	-	5	32	-	-	5	19	-	-	1	-
New Jersey	-	-	1	1	-	-	1	1	-	-	-	-
Pennsylvania	5	-	8	-	5	-	6	-	-	-	-	-
EAST NORTH CENTRAL	1	-	16	10	1	-	12	6	-	-	4	2
Ohio	-	-	4	4	-	-	3	4	-	-	2	-
Indiana	-	-	2	3	-	-	-	2	-	-	-	-
Illinois	1	-	7	2	1	-	6	-	-	-	-	1
Michigan	-	-	2	-	-	-	2	-	-	-	2	1
Wisconsin	-	-	1	1	-	-	1	-	-	-	-	-
WEST NORTH CENTRAL	-	1	3	8	-	1	3	5	-	-	-	1
Minnesota	-	1	2	2	-	1	2	2	-	-	-	-
Iowa	-	-	-	3	-	-	-	2	-	-	-	-
Missouri	-	-	1	3	-	-	1	1	-	-	-	1
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC	-	-	9	11	-	-	7	9	-	-	5	3
Delaware	-	-	-	-	-	-	-	-	-	-	1	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	1	-	-	-	-	-	-	-	-
Virginia	-	-	2	2	-	-	1	2	-	-	1	1
West Virginia	-	-	1	-	-	-	1	-	-	-	-	-
North Carolina	-	-	2	2	-	-	2	2	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	-	-	1	2	-	-	-	2	-	-	-	-
Florida	-	-	3	4	-	-	3	3	-	-	3	2
EAST SOUTH CENTRAL	2	1	6	6	2	1	5	4	-	-	1	-
Kentucky	-	-	-	2	-	-	-	2	-	-	1	-
Tennessee	1	-	2	2	1	-	2	-	-	-	-	-
Alabama	1	1	3	2	1	1	2	2	-	-	-	-
Mississippi	-	-	1	-	-	-	1	-	-	-	-	-
WEST SOUTH CENTRAL	1	6	16	90	1	4	16	76	-	2	3	23
Arkansas	1	-	1	1	1	-	1	1	-	-	-	-
Louisiana	-	-	13	7	-	-	13	6	-	-	-	-
Oklahoma	-	-	-	1	-	-	-	-	-	-	-	-
Texas	-	6	2	81	-	4	2	69	-	2	3	23
MOUNTAIN	-	-	-	8	-	-	-	7	-	-	2	1
Montana	-	-	-	3	-	-	-	2	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	1	-	-	-	1	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	1	1
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	3	-	-	-	3	-	-	1	-
Utah	-	-	-	1	-	-	-	1	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC	-	1	12	17	-	1	11	14	-	-	9	10
Washington	-	-	-	-	-	-	-	-	-	-	2	2
Oregon	-	-	1	1	-	-	1	1	-	-	-	-
California	-	1	11	16	-	1	10	13	-	-	7	8
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	1	4	7	-	1	4	7	-	-	-	1

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED JUNE 22, 1963 AND JUNE 23, 1962 - (Continued)

Area	Brucellosis		Diphtheria		Encephalitis, infectious		Hepatitis, infectious and serum				Measles	
							25th week					
	25th week	Cumulative 25 weeks	25th week	Cumulative 25 weeks	25th week		Under 20 yr.	20 & over	Total		25th week	
	1963	1963	1963	1963	1963	1962	1963	1963	1963	1962	1963	1962
UNITED STATES	5	163	4	130	42	38	326	283	671	788	8,794	9,541
NEW ENGLAND	-	-	-	4	3	1	35	19	57	46	338	1,433
Maine	-	-	-	-	-	-	29	9	38	18	8	151
New Hampshire	-	-	-	-	-	-	2	-	2	6	3	2
Vermont	-	-	-	-	-	-	-	-	-	3	15	9
Massachusetts	-	-	-	2	1	-	2	8	11	12	198	639
Rhode Island	-	-	-	2	2	1	-	-	2	2	16	112
Connecticut	-	-	-	-	-	-	2	2	4	5	98	520
MIDDLE ATLANTIC	-	4	-	20	11	7	66	61	127	150	1,718	2,114
New York	-	3	-	13	8	7	45	34	79	68	759	1,135
New Jersey	-	-	-	2	-	-	7	12	19	39	449	773
Pennsylvania	-	1	-	5	3	-	14	15	29	43	510	206
EAST NORTH CENTRAL	1	13	4	16	4	2	81	52	136	139	3,091	1,886
Ohio	-	-	-	1	-	-	16	10	27	31	261	234
Indiana	-	2	-	3	-	-	-	1	2	16	102	125
Illinois	-	9	4	7	2	-	26	18	44	39	219	531
Michigan	1	2	-	3	1	2	33	23	56	47	1,481	698
Wisconsin	-	-	-	2	1	-	6	-	7	6	1,028	298
WEST NORTH CENTRAL	3	111	-	36	4	4	18	13	41	45	359	338
Minnesota	-	7	-	15	-	-	1	3	4	18	46	94
Iowa	3	81	-	1	3	1	2	4	14	15	65	176
Missouri	-	5	-	1	-	-	5	3	8	2	197	6
North Dakota	-	-	-	1	-	3	-	-	-	2	50	61
South Dakota	-	7	-	10	1	-	2	-	2	-	-	-
Nebraska	-	5	-	8	-	-	-	1	3	3	1	1
Kansas	-	6	-	-	-	-	8	2	10	5	NN	NN
SOUTH ATLANTIC	-	4	-	26	9	6	29	27	62	77	844	511
Delaware	-	-	-	-	-	-	1	2	3	-	20	19
Maryland	-	-	-	-	2	3	10	1	11	11	61	74
District of Columbia	-	-	-	-	-	-	-	-	-	3	2	7
Virginia	-	2	-	-	1	-	3	7	15	8	151	156
West Virginia	-	-	-	1	-	-	3	1	4	12	431	141
North Carolina	-	1	-	1	2	-	6	3	9	20	13	7
South Carolina	-	-	-	9	-	1	-	-	1	4	83	45
Georgia	-	-	-	7	-	-	1	4	5	6	4	25
Florida	-	1	-	8	4	2	5	9	14	13	79	37
EAST SOUTH CENTRAL	1	7	-	9	-	-	19	22	41	113	410	479
Kentucky	-	2	-	-	-	-	5	2	7	40	181	137
Tennessee	1	4	-	2	-	-	11	11	22	37	201	294
Alabama	-	1	-	7	-	-	1	6	7	19	20	27
Mississippi	-	-	-	-	-	-	2	3	5	17	8	21
WEST SOUTH CENTRAL	-	12	-	16	-	2	25	13	40	73	480	660
Arkansas	-	3	-	1	-	-	4	-	4	6	105	13
Louisiana	-	-	-	2	-	-	6	4	10	17	1	-
Oklahoma	-	3	-	6	-	1	-	-	-	3	49	9
Texas	-	6	-	7	-	1	15	9	26	47	325	638
MOUNTAIN	-	5	-	1	1	1	6	2	26	36	598	912
Montana	-	-	-	-	-	1	1	-	1	-	57	104
Idaho	-	-	-	-	-	-	-	-	5	3	98	54
Wyoming	-	1	-	-	-	-	-	-	-	-	24	3
Colorado	-	-	-	-	-	-	-	-	2	13	104	380
New Mexico	-	-	-	1	-	-	3	1	4	4	NN	NN
Arizona	-	3	-	-	-	-	-	-	11	11	279	231
Utah	-	1	-	-	1	-	2	1	3	5	36	140
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC	-	7	-	2	10	15	47	74	141	109	956	1,208
Washington	-	-	-	-	-	4	10	10	38	37	84	106
Oregon	-	2	-	-	-	-	8	8	18	9	139	356
California	-	4	-	2	10	11	28	54	82	60	680	609
Alaska	-	-	-	-	-	-	-	-	-	3	23	11
Hawaii	-	1	-	-	-	-	1	2	3	-	30	126
Puerto Rico	-	-	1	10	-	-	13	4	17	20	27	87

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JUNE 22, 1963 AND JUNE 23, 1962 - (Continued)

Area	Meningococcal Infections		Streptococcal Sore Throat & Scarlet Fever		Tetanus	Tickborne Typhus (Rcky Mt. Spotted)	Tularemia	Typhoid Fever		Rabies in Animals		
	25th wk.	Cumulative 25 weeks	25th week		25th wk.	25th wk.	25th wk.	25th wk.	Cumulative 25 weeks	25th week		Cumulative 25 weeks
	1963	1963	1963	1962	1963	1963	1963	1963	1963	1963	1962	1963
UNITED STATES....	49	1,402	4,398	3,952	6	8	12	10	171	98	87	1,967
NEW ENGLAND.....	1	87	554	254	-	-	1	-	6	-	-	20
Maine.....	-	15	81	1	-	-	-	-	-	-	-	1
New Hampshire.....	-	4	-	1	-	-	-	-	-	-	-	12
Vermont.....	-	3	-	1	-	-	-	-	1	-	-	7
Massachusetts.....	1	38	44	65	-	-	1	-	4	-	-	-
Rhode Island.....	-	9	37	23	-	-	-	-	-	-	-	-
Connecticut.....	-	18	392	163	-	-	-	-	1	-	-	-
MIDDLE ATLANTIC.....	8	192	215	242	1	-	-	3	23	2	3	55
New York.....	4	86	143	166	-	-	-	2	16	2	2	41
New Jersey.....	1	27	42	40	-	-	-	1	2	-	-	-
Pennsylvania.....	3	79	30	36	1	-	-	-	5	-	1	14
EAST NORTH CENTRAL..	6	228	459	294	-	1	-	3	11	51	38	329
Ohio.....	2	64	40	16	-	1	-	1	3	45	27	206
Indiana.....	2	29	64	81	-	-	-	-	1	1	3	31
Illinois.....	2	39	77	50	-	-	-	2	5	3	3	46
Michigan.....	-	69	198	78	-	-	-	-	1	2	3	30
Wisconsin.....	-	27	80	69	-	-	-	-	1	-	2	16
WEST NORTH CENTRAL..	3	83	114	70	-	-	2	-	10	22	18	467
Minnesota.....	-	16	18	14	-	-	-	-	3	4	2	125
Iowa.....	-	4	37	33	-	-	-	-	1	14	5	175
Missouri.....	2	30	5	1	-	-	2	-	6	2	6	82
North Dakota.....	-	4	41	19	-	-	-	-	-	1	2	14
South Dakota.....	-	4	10	2	-	-	-	-	-	-	2	54
Nebraska.....	-	19	1	-	-	-	-	-	-	1	1	9
Kansas.....	1	6	2	1	-	-	-	-	-	-	-	8
SOUTH ATLANTIC.....	11	258	349	339	1	4	1	-	34	6	6	302
Delaware.....	-	2	1	3	-	-	-	-	1	-	-	-
Maryland.....	1	41	10	23	-	-	-	-	3	-	-	-
Dist. of Columbia..	-	4	-	1	-	-	-	-	-	-	-	-
Virginia.....	-	64	135	82	1	2	-	-	4	2	3	111
West Virginia.....	-	13	84	54	-	-	-	-	6	1	1	88
North Carolina.....	4	43	14	10	-	1	-	-	5	-	-	5
South Carolina.....	-	13	36	22	-	-	-	-	2	-	-	6
Georgia.....	6	22	-	10	-	1	-	-	2	2	-	37
Florida.....	-	56	69	134	-	-	1	-	11	1	2	55
EAST SOUTH CENTRAL..	1	109	747	502	1	2	-	1	15	3	6	161
Kentucky.....	-	24	90	25	-	-	-	-	1	2	1	76
Tennessee.....	1	47	633	466	1	2	-	1	10	1	3	71
Alabama.....	-	21	10	4	-	-	-	-	4	-	2	14
Mississippi.....	-	17	14	7	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL..	3	141	596	542	3	1	7	3	31	3	14	394
Arkansas.....	1	9	1	8	-	-	5	1	15	2	1	26
Louisiana.....	1	58	3	2	-	-	-	-	5	1	1	36
Oklahoma.....	1	28	39	1	1	1	2	-	2	-	-	33
Texas.....	-	46	553	531	2	-	-	2	9	-	12	299
MOUNTAIN.....	6	49	669	887	-	-	1	-	5	6	-	45
Montana.....	-	3	22	21	-	-	-	-	-	-	-	-
Idaho.....	-	3	44	74	-	-	-	-	-	-	-	-
Wyoming.....	3	4	-	12	-	-	1	-	-	-	-	-
Colorado.....	1	12	161	306	-	-	-	-	2	2	-	2
New Mexico.....	-	3	218	192	-	-	-	-	1	-	-	21
Arizona.....	-	7	111	156	-	-	-	-	2	4	-	22
Utah.....	2	14	112	126	-	-	-	-	-	-	-	-
Nevada.....	-	3	1	-	-	-	-	-	-	-	-	-
PACIFIC.....	10	255	695	822	-	-	-	-	36	5	2	194
Washington.....	-	18	81	47	-	-	-	-	-	-	-	-
Oregon.....	-	15	10	15	-	-	-	-	2	-	-	1
California.....	9	208	537	690	-	-	-	-	31	5	2	184
Alaska.....	1	7	26	53	-	-	-	-	1	-	-	9
Hawaii.....	-	7	41	17	-	-	-	-	2	-	-	-
Puerto Rico.....	-	4	14	-	2	-	-	2	10	-	2	6

Table 4 (A). TOTAL DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	6/1	6/8	6/15	6/22
NEW ENGLAND:				
Boston, Mass.	225	279	237	188
Bridgeport, Conn.	24	51	45	35
Cambridge, Mass.	22	33	36	36
Fall River, Mass.	28	25	24	22
Hartford, Conn.	36	63	57	46
Lowell, Mass.	21	22	23	19
Lynn, Mass.	27	15	30	19
New Bedford, Mass.	20	35	33	24
New Haven, Conn.	38	48	59	37
Providence, R.I.	63	53	57	85
Somerville, Mass.	14	15	12	12
Springfield, Mass.	30	42	35	35
Waterbury, Conn.	31	34	24	29
Worcester, Mass.	55	47	62	49
MIDDLE ATLANTIC:				
Albany, N.Y.	38	47	34	45
Allentown, Pa.	33	41	26	35
Buffalo, N.Y.	117	151	138	132
Camden, N.J.	35	37	46	42
Elizabeth, N.J.	29	23	29	25
Erie, Pa.	44	40	39	38
Jersey City, N.J.	65	61	61	62
Newark, N.J.	61	119	86	72
New York City, N.Y.	1,554	1,580	1,582	1,575
Paterson, N.J.	25	34	32	36
Philadelphia, Pa.	372	436	481	464
Pittsburgh, Pa.	182	238	119	158
Reading, Pa.	38	40	37	45
Rochester, N.Y.	115	119	110	95
Schenectady, N.Y.	31	17	21	29
Scranton, Pa.	26	23	32	38
Syracuse, N.Y.	54	54	71	61
Trenton, N.J.	41	52	67	32
Utica, N.Y.	19	20	15	26
Yonkers, N.Y.	37	32	29	34
EAST NORTH CENTRAL:				
Akron, Ohio	46	53	64	58
Canton, Ohio	31	34	44	31
Chicago, Ill.	658	777	786	655
Cincinnati, Ohio	134	210	147	153
Cleveland, Ohio	153	239	245	204
Columbus, Ohio	124	124	131	112
Dayton, Ohio	66	77	61	71
Detroit, Mich.	258	368	428	320
Evansville, Ind.	35	40	37	31
Flint, Mich.	33	49	56	46
Fort Wayne, Ind.	36	51	46	29
Gary, Ind.	23	49	34	31
Grand Rapids, Mich.	49	59	38	45
Indianapolis, Ind.	129	168	153	127
Madison, Wis.	33	25	54	30*
Milwaukee, Wis.	96	145	144	113
Peoria, Ill.	27	26	37	25
Rockford, Ill.	29	27	37	26
South Bend, Ind.	39	47	47	35
Toledo, Ohio	72	120	129	106
Youngstown, Ohio	54	74	74	56
WEST NORTH CENTRAL:				
Des Moines, Iowa	46	55	67	62
Duluth, Minn.	21	30	30	19
Kansas City, Kans.	38	40	48	31
Kansas City, Mo.	107	155	111	118
Lincoln, Nebr.	25	26	29	22
Minneapolis, Minn.	96	149	105	130
Omaha, Nebr.	52	72	74	57
St. Louis, Mo.	185	290	297	214
St. Paul, Minn.	74	73	77	68
Wichita, Kans.	34	36	59	51
SOUTH ATLANTIC:				
Atlanta, Ga.	93	107	133	125
Baltimore, Md.	176	289	213	248
Charlotte, N.C.	40	47	58	24
Jacksonville, Fla.	64	37	56	59
Miami, Fla.	44	105	66	96
Norfolk, Va.	40	54	44	61
Richmond, Va.	78	106	87	84
Savannah, Ga.	41	43	33	31
St. Petersburg, Fla.	58	66	81	77
Tampa, Fla.	58	81	66	81
Washington, D.C.	188	184	206	193
Wilmington, Del.	18	36	46	37
EAST SOUTH CENTRAL:				
Birmingham, Ala.	80	76	89	105
Chattanooga, Tenn.	46	38	50	32
Knoxville, Tenn.	26	45	32	44
Louisville, Ky.	66	127	93	128
Memphis, Tenn.	99	117	151	135
Mobile, Ala.	36	37	40	56
Montgomery, Ala.	45	37	43	34
Nashville, Tenn.	80	99	99	83
WEST SOUTH CENTRAL:				
Austin, Tex.	30	35	31	38
Baton Rouge, La.	25	25	29	27
Corpus Christi, Tex.	24	26	19	31
Dallas, Tex.	131	133	143	134
El Paso, Tex.	33	43	32	44
Fort Worth, Tex.	82	77	58	66
Houston, Tex.	182	188	139	165
Little Rock, Ark.	56	60	58	73
New Orleans, La.	184	163	184	190
Oklahoma City, Okla.	59	82	106	77
San Antonio, Tex.	87	113	115	100
Shreveport, La.	55	29	58	70
Tulsa, Okla.	53	63	54	43
MOUNTAIN:				
Albuquerque, N. Mex.	41	28	27	37
Colorado Springs, Colo.	19	17	16	19
Denver, Colo.	103	124	108	110
Ogden, Utah	13	19	20	12
Phoenix, Ariz.	74	97	81	94
Pueblo, Colo.	14	13	13	18
Salt Lake City, Utah	50	59	49	59
Tucson, Ariz.	44	57	41	39
PACIFIC:				
Berkeley, Calif.	20	17	17	19
Fresno, Calif.	49	46	55	45
Glendale, Calif.	27	45	33	39
Honolulu, Hawaii	45	44	31	43*
Long Beach, Calif.	41	82	55	53
Los Angeles, Calif.	438	525	525	546
Oakland, Calif.	78	104	83	96*
Pasadena, Calif.	29	53	37	39*
Portland, Oreg.	95	116	108	125
Sacramento, Calif.	52	52	56	59
San Diego, Calif.	94	94	90	105
San Francisco, Calif.	183	214	224	164
San Jose, Calif.	46	48	34	36
Seattle, Wash.	128	181	145	139
Spokane, Wash.	58	34	58	47
Tacoma, Wash.	37	51	34	45
San Juan, P.R.	30	23	33	30

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages..... 10,978
4(B) Pneumonia-Influenza Deaths, all ages..... 360
4(C) Total Deaths under 1 Year of Age..... 695
4(D) Total Deaths, Persons 65 years and over..... 6,076

NOTF: All deaths by place of occurrence.

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excess mortality was noticeably later in 1963 than in 1960. Cumulative excess mortality, shown in the lower part of the figure, was similar to that for the entire United States, with excess pneumonia-influenza mortality lower, but excess mortality from all causes higher in 1963 than in 1960.

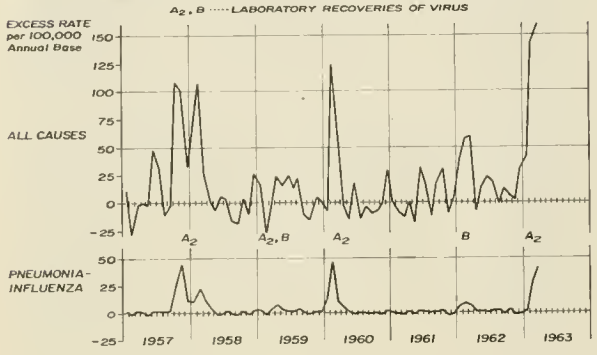
The total number of excess deaths from pneumonia-influenza is estimated at 11,125 in comparison with 12,000 deaths during the 1960 epidemic. For all causes of death the excess number during the 1963 epidemic is estimated to be 53,000, a considerably larger number than the 27,000 excess deaths from all causes estimated to have occurred during the epidemic of 1960. However, as illustrated in Figure 3, there was a noticeable excess

FIGURE 3

EXCESS MORTALITY BY MONTH, UNITED STATES, 1957-1963

EXCESS RATE PER 100,000 - ADJUSTED TO AN ANNUAL BASE

A_2, B ····· LABORATORY RECOVERIES OF VIRUS



in deaths from all causes during December and January when excess pneumonia-influenza mortality was at low levels. Using the February ratio of excess deaths from all causes to pneumonia-influenza deaths as a basis for adjustment, the excess deaths from all causes during January would be reduced by 5,000 leaving a total of 48,000 excess deaths from all causes as the total associated with the influenza epidemic. The above estimates are all based on the 10% U. S. Mortality Sample.

INTERNATIONAL NOTES – QUARANTINE MEASURES

Smallpox – Sweden

Two additional cases of smallpox in Stockholm were reported on June 20 and June 24, 1963, respectively. A total of 23 confirmed cases, with four deaths, has occurred to date.

ERRATUM

The graph of tetanus mortality and morbidity which appeared in Vol. 12, Page 198, indicated rates/100,000, but erroneously showed rates/1,000,000. The vertical axis should have read .10, .20, .30, etc., to show rates/100,000.

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